PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty) (PCT Article 36 and Rule 70)

Applicant's or agent's file reference S-30	FOR FURTHER ACTIO	ON	See Form PCT/IPEA/416			
International application No.	International filing date (day/n	nonth/year)	Priority date (day/month/	(year)		
PCT/JP2005/011399	15.06.20	005	15.06.2	2004		
International Patent Classification (IPC) or national classification and IPC Int.Cl. F28F9/02 (2006.01), F25B1/00 (2006.01), F25B39/02 (2006.01), F28F21/08 (2006.01)						
Applicant						
SHOWA DENKO K.K.						
1. This report is the international preliminary examination report, established by this International Preliminary Examining						
Authority under Article 35 and tra				•		
 This REPORT consists of a total of3 sheets, including this cover sheet. This report is also accompanied by ANNEXES, comprising: 						
a. a total of sheets, as follows: sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental						
	be Listing (see Section 802 o		e Instructions).			
4. This report contains indications re		S.				
Box No. I Basis of the	report		•			
Box No. II Priority						
	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
1	Lack of unity of invention					
	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain doc	ertain documents cited					
h	ertain defects in the international application					
Box No. VIII Certain observations on the international application						
Date of submission of the demand Date of completion of this report						
28.11.2005	;	02.05.2006				
Name and mailing address of the IPEA/JP	, A	authorized officer		3M 9029		
Japan Patent Office	xe S	Shogo Tatai				
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan		Telephone No. +81-3-3581-1101 Ext. 3377				

Form PCT/IPEA/409 (cover sheet) (April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/011399

Box No. 1	I Basis of the report		
ı. Wit	th regard to the language, this report is based	on:	
V	the international application in the language		
	a translation of the international applica	ation into	, which is the language of a
	translation furnished for the purposes of:		_
	international search (Rules 12.3(a) and	123.1(b))	
	publication of the international applica		
	international preliminary examination	(Rules 55.2(a) and/or 55.3(a))	
furn		al application, this report is based on (repla in invitation under Article 14 are referred to i	
Ø	the international application as originally	filed/furnished .	
Γ	the description:		
	pages		as originally filed/furnished
		received by this Authority on	
	pages*	received by this Authority on	
1	the claims:		
	Nos.		as originally filed/furnished
	Nos.*		h any statement) under Article 19
	Nos.*		
	Nos.*	received by this Authority on	
	the drawings:		
	ets/figs		as originally filed/furnished
	ets/figs *		
shee	ets/figs *	received by this Authority on	
	a sequence listing and/or any related table	(s) - see Supplemental Box Relating to Sequ	nence Listing.
3. 🦳	The amendments have resulted in the cand	cellation of:	
	the description, pages		·
	the claims, Nos.		
•	the drawings, sheets/figs		
	the sequence listing (specify):		
	any table(s) related to sequence list	ing (specify):	
4.	This report has been established as if (sommade, since they have been considered to (Rule 70.2(c)).	ne of) the amendments annexed to this repore go beyond the disclosure as filed, as indi-	t and listed below had not been icated in the Supplemental Box
	the description, pages		
	the claims, Nos.		
	the drawings, sheets/figs		
	the sequence listing (specify).		<u> </u>
	any table(s) related to sequence list	ing (specify):	
* If iten	n 4 applies, some or all of those sheets may be	e marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/011399

Box No. V Reasoned statement u citations and explanat			y, inventive step or industria	al applicability;
1. Statement				
Novelty (N)	Claims Claims	1-11		YES NO
Inventive step (IS)	Claims Claims	1-11		YES NO
Industrial applicability (IA)	Claims Claims			YES NO
2. Citations and explanations(Rule 70 D1:JP 2004-3810 A (Denso K.K.) 20 D2:JP 2004-53132 A (Denso K.K.) 2	04.01.08, para 004.02.19, par	ragraphs 21-43, figures 1-5		
The subject matters of claim 1-11 do not A skilled person in the art would east				
comprising a tube connecting plate 172			-	
Moreover, an outwardly protruding rib	as a drain guid	de is widely known among a s	skilled person in the art.	
			•	
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